

**Parts**  
**Manual**

**MODEL**  
**3500 MARK II**

**GENERATOR DRIVE  
OPTIONAL EQUIPMENT**

*3500 ALLIS-CHALMERS.*



**ALLIS-CHALMERS**

**ENGINE DIVISION  
HARVEY, ILLINOIS 60426, USA**

Printed in USA

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973

14-1

(9-74)

Gunny



## FOREWORD

This Parts Manual contains parts information on the unit or units specified on the cover.

The Basic Engine Indexs are provided as means of identifying and locating parts pertaining to the basic engine only.

The Optional Equipment Index is provided as a means of identifying parts and accessories installed on the unit at the factory. Some optional equipment may be substituted for basic engine equipment or added to the basic engine.

The Engine Serial Number and Optional Equipment Catalog Number applying to each engine are stamped on the Engine and Optional Equipment Plate located on the left-hand side of the engine. See following illustration.

E-2398

CATALOG NO.	OPT. EQUIP.	CATALOG NO.	OPT. EQUIP.	CATALOG NO.	OPT. EQUIP.

**ALLIS-CHALMERS**  
HARVEY, ILLINOIS • MADE IN U. S. A.  
SERIAL NO. CATALOG NO.  
MODEL

Optional equipment parts are found by identifying the Optional Equipment Catalog Number in the nomenclature heading and/or immediately following the description of a part.

Reference Numbers (Ref.) above the text title block are to be disregarded unless the numbers are stamped on the Engine and Optional Equipment Plate or some other data refers the user to the reference number.

Attaching parts, such as capscrews, nuts, etc., are indented immediately following the parts which they attached or are attached to.

The terms "right" and "left" used in the parts list are determined by standing at flywheel end of engine and facing the flywheel.

Always give Engine Serial Number when ordering parts. To obtain shipment promptly give part number and part nomenclature. Order parts from the dealer covering the local territory.

Always indicate complete address where parts are to be shipped and specify by what means material is to be shipped. Confirm all telephone or telegraph orders in writing.

Claims for shortages or errors in shipment must be made immediately upon receipt of shipment. Claims for damages in shipment must be filed with the transportation company. No responsibility is assumed for delay or damage to merchandise while in transit.

At the time this parts catalog was published the listed part numbers were current. It is our policy to constantly improve our products and therefore, part numbers and design may change. When ordering parts, verify part numbers through your dealer's parts catalog.



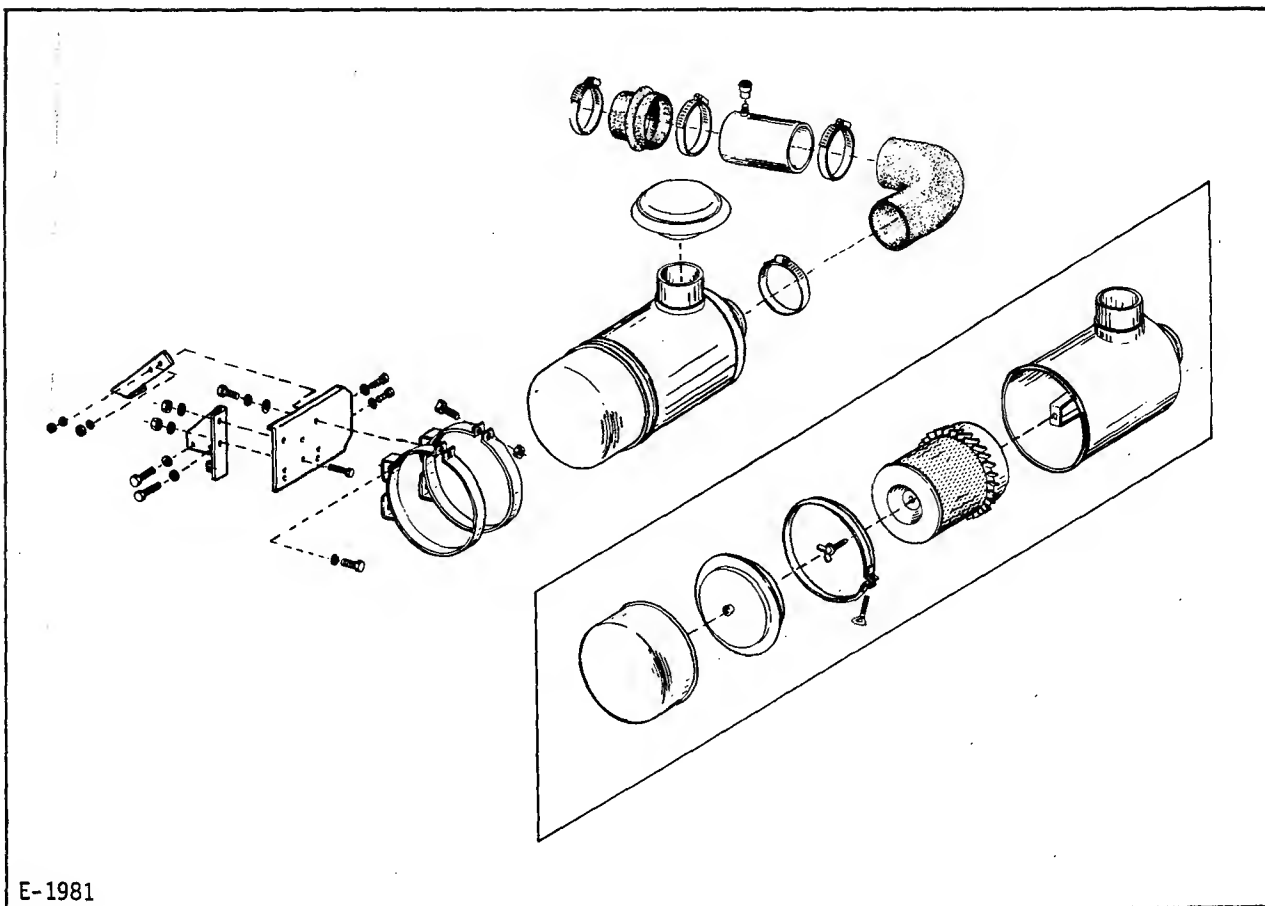
# INDEX OPTIONAL EQUIPMENT

Optional groups are selective and are additions, omissions, and substitutions to Basic Engine Equipment.

\*Denotes information is in Basic Manual.

Catalog Number	Description	Page	Catalog Number	Description	Page
0920204	Reducer, Exhaust .....	19	4035077	Radiator .....	22
4025470	Adaptor, Starter .....	8	4035078	Fan Blade .....	11
4025692	Starter, Cranking Mtr. ...	8	4035091	Vertical Inj. Air Adaptor ...	3
4025961	Housing, Flywheel .....	13	4035093	Muffler .....	20
4025962	Flywheel .....	12	4035116	Oil Filter, Lube Oil Bypass	17
4026118	Elbow, Exh. Diffuser ....	19	4035205	Fuel Inj. Pump & Governor ..	15
4026119	Hose, Flex. Exhaust .....	19	4035207	Fuel Inj. Pump & Governor ..	15
4026175	Flywheel .....	12	4035210	Fuel Inj. Pump & Governor ..	15
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4026316	Flywheel .....	12	4035305	Alt., Regulator & Ammeter	
4026318	Flywheel .....	12		Omission .....	*
4026715	Housing, Flywheel .....	13	4035292	Air Cleaner .....	5/31
4027724	Drive Ay. (Tachometer & O-Speed Sw.) .....	10	4035295	Intake and Water Cooled Exhaust Manifold . 27 thru 34	
4028935	Immersion Heater .....	16	4389859	Adaptor, Angle Drive .....	10
4028938	Immersion Heater .....	16	4401726	Ammeter Omission .....	*
4029597	Ether (Cold-Start) Aid ...	9	4403571	Hose, Flex. Exh. ....	19
4029638	Ether (Cold-Start) Aid ...	9	4472618	Air Cleaner .....	1
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4029801	Engine Supports .....	21	4472759	Air Duct Adaptor .....	22
4029802	Exhaust Stack .....	19	4472768	Alternator, 24V D.C. ....	7
4029803	Fan Guard .....	22	4472785	Muffler .....	20
4029804	Fan Blade .....	11	4472786	Air Cleaner .....	3
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4029818	Radiator Shell .....	22	4472793	Remote Speed Contr. Mtr. ...	24





E-1981

AIR CLEANER  
(4472618) (4472719 OMISSION)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	3046858	1	ELEMENT, AIR FILTER	
2	4021443	1	AIR CLEANER AY.	
3	4059256	1	CUP, DUST	
4	0638416	1	BAFFLE, DUST	
5	0638415	1	CLAMP AY. (INCL BOLT)	
6	0239517	1	BOLT AND GASKET	
7	0240441	1	CAP, INLET	
8	0925262	4	CLAMP, HOSE	
9	4021402	1	ELBOW, OUTLET	
10	4027482	1	TUBE W/PROVISION FOR INDICATOR	
11	4021600	1	INDICATOR, SERVICE	
12	4021401	1	ADAPTOR, FLEXIBLE	
13	3024555	2	BAND (INCL NUT & BOLT)	
	0916431	4	CAPSCREW, 5/16 NC X 1	
	0917356	4	LOCKWASHER	
	0917372	4	NUT	

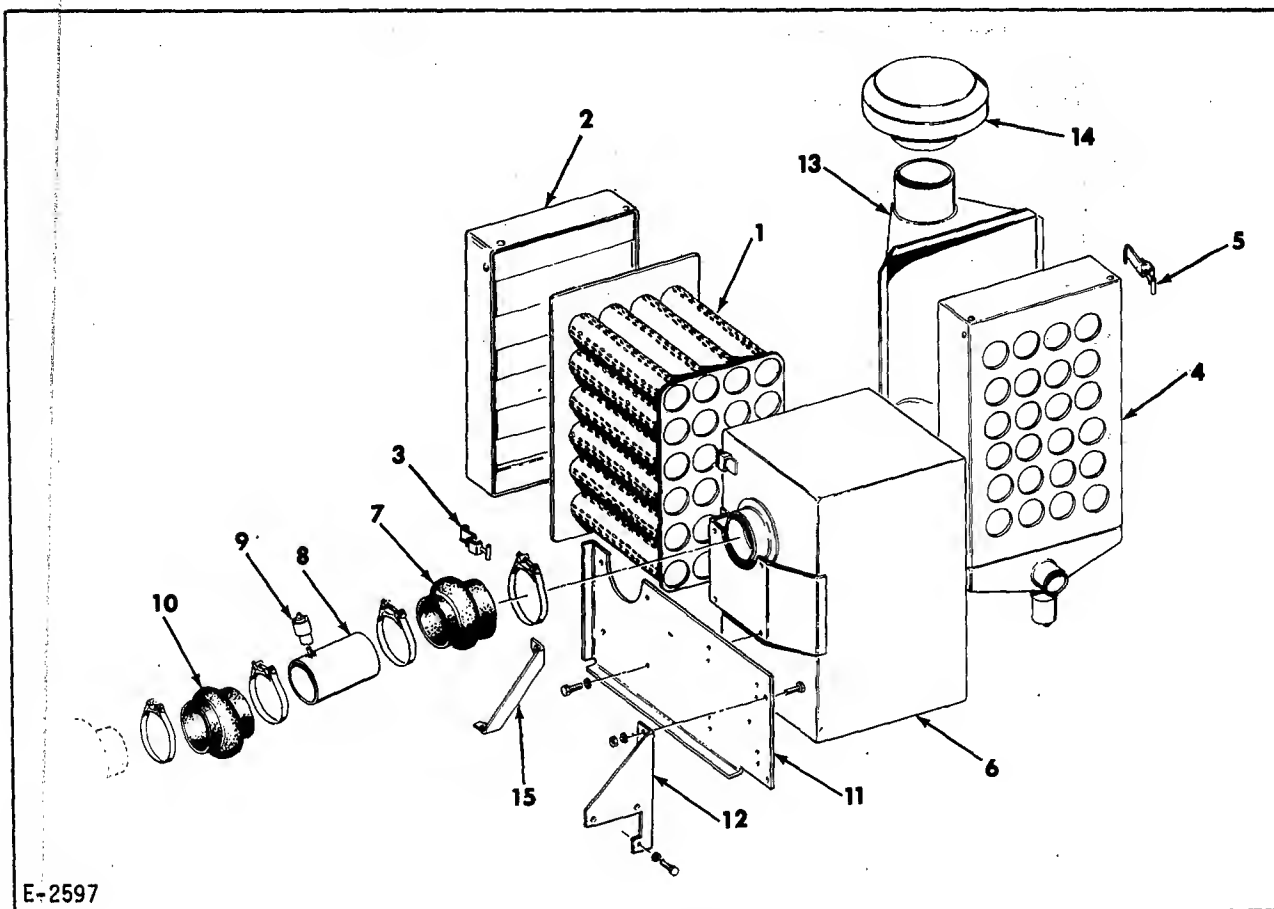
CONTINUED

AIR CLEANER (CONTINUED)  
(4472618) (4472719 OMISSION)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
14	4026863	1	BRACKET, MOUNTING	
	0916272	3	CAPSCREW, 3/8 NC X 1 1/4	
	0910287	3	LOCKWASHER	
15	4026861	1	BRACE, BRACKET	
	0916272	2	CAPSCREW, 3/8 NC X 1 1/4	
	0916965	2	LOCKWASHER	
	0916950	2	NUT	
16	-----	1	BRACE(REFER TO CYL HEAD)	
	0919351	2	CAPSCREW, 1/4 NC X 7/8	
	0918264	2	WASHER	
	0916964	2	LOCKWASHER	
	0916622	2	NUT	

NOTE- OMISSION GROUP 4472719 PROVIDES FOR  
FACTORY REMOVAL FROM DES UNIT  
PRIOR TO SHIPMENT.





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**AIR CLEANER**  
(4472757)(4472783)(4472786)(4472787)(4035091)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	0634446	1	CARTRIDGE, 24 TUBE ELEMENT	
2	4320800	1	PANEL, MOISTURE ELIMINATOR (4472783)(4472786)	
3	4024429	4	FASTENER AY. (FOR PANEL 4320800)	
4	4029903	1	PRE-CLEANER W/BLEED VALVE (4472757) (4472787)	
5	4024430	4	FASTENER AY. (FOR PRE-CLEANER 4029903)	
6	4029634	1	HOUSING, AIR CLEANER	
	0916269	4	CAPSCREW, 3/8 NC X 7/8	
	0916965	4	LOCKWASHER	
7	4359319	1	REDUCER, FLEX ADAPTOR	
	0929293	1	CLAMP, 4 1/16 MAX	
	0925262	1	CLAMP, 3 9/16 MAX	
8	4029635	1	TUBE (W/PROVISION FOR INDICATOR)	
9	4021600	1	INDICATOR, SERVICE	
10	4021401	1	ADAPTOR, FLEX	
	0925262	2	CLAMP	
11	4029625	1	PLATE, MOUNTING	
	0916272	3	CAPSCREW, 3/8 NC X 1 1/4	
	0916965	3	LOCKWASHER	
	0916950	3	NUT	

CONTINUED

AIR CLEANER (CONTINUED)  
 (4472757)(4472783)(4472786)(4472787)(4035091)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
12	4026861	1	BRACE, PLATE	
	0916272	2	CAPSCREW 3/8 NC X 1 1/4	
	0916965	2	LOCKWASHER	
	0916950	2	NUT	
13	4029891	1	ADAPTOR, VERTICAL AIR INTAKE (4035091)	
14	4039008	1	CAP, RAIN (4035091)	
15	4029626	1	BRACE-(REPLACES BRACE 4025946 SPECIFIED IN CYL HD GR)	
	0916272	1	CAPSCREW, 3/8 NC X 1 1/4	

(ARTWORK PENDING)

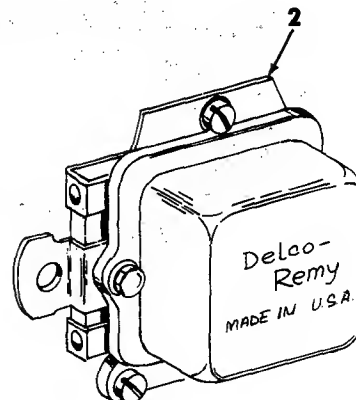
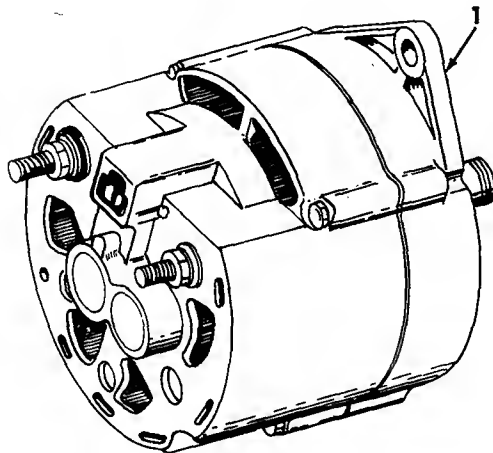
AIR CLEANER (4035292)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	3046858	1	CARTRIDGE	
2	4021443	1	AIR CLEANER AY.	
3	4059256	1	CUP, DUST	
4	0638416	1	BAFFLE, DUST	
5	0638415	1	CLAMP AY. (INCL. 8OLT)	
6	0239517	1	BOLT, WITH GASKET	
7	0240441	1	CAP, INLET	
8	0925262	4	CLAMP, HOSE	
9	4021402	1	ELBOW, OUTLET	
10	4028985	1	TUBE, ELBOW	
	0622447	1	ADAPTOR, INDICATOR	
11	4021600	1	INDICATOR, SERVICE	
12	4021401	1	ADAPTOR, FLEXIBLE	
13	3024555	2	BAND/STRAP AY.	
	0914392	4	CAPSCREW, 5/16 NC X 1	
	0904205	4	LOCKWASHER	
	0910323	4	NUT	

CONTINUED

## AIR CLEANER (4035292) (CONTINUED)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
14	4028986	1	BRACKET AY., MOUNTING	
	0916272	3	CAPSCREW, 3/8 NC X 1 1/4	
	0910287	3	LOCKWASHER	
15	4028987	1	SUPPORT AY.	
	0916269	1	CAPSCREW, 3/8 NC X 7/8	
	0910287	1	LOCKWASHER, 3/8	
	0915809	1	CAPSCREW, 5/16 X 3/4	
	0904205	1	LOCKWASHER, 5/16	



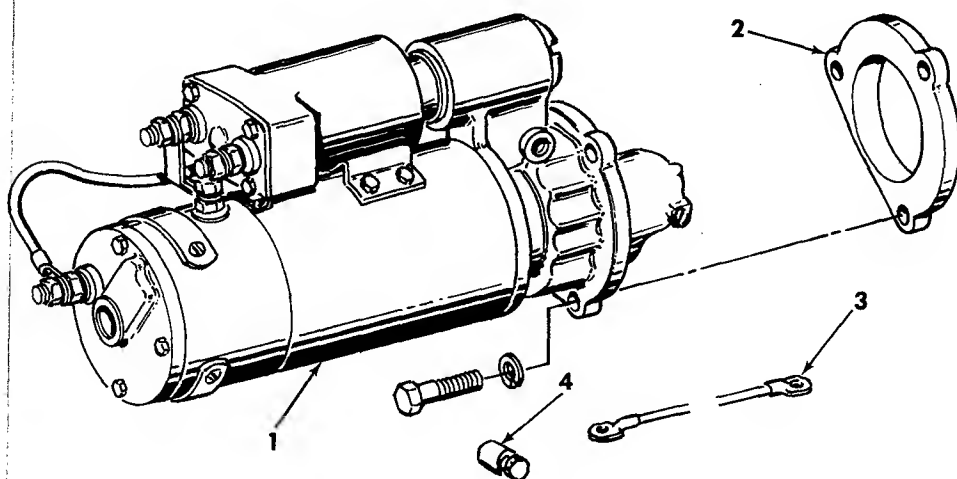
E-2786

ALTERNATOR  
(4029067) (4029068) (4472768)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4027733	1	ALTERNATOR, 12V-58 AMP (4029067) DELCO Remy #1100063	
1	4028906	1	ALTERNATOR, 24V-30 AMP (4029068) (4472768) DELCO-REMY #1100074	
2	0650944	1	REGULATOR, 24V. (4029068) (4472768)	

NOTE- 1. REFER TO BASIC MANUAL REF. 4029811 ALTERNATOR  
GROUP FOR BALANCE OF EQUIPMENT.

NOTE- 2. GROUP 4029068 ALSO PROVIDES FOR FACTORY  
APPLICATION OF 24V AIR HEATER.

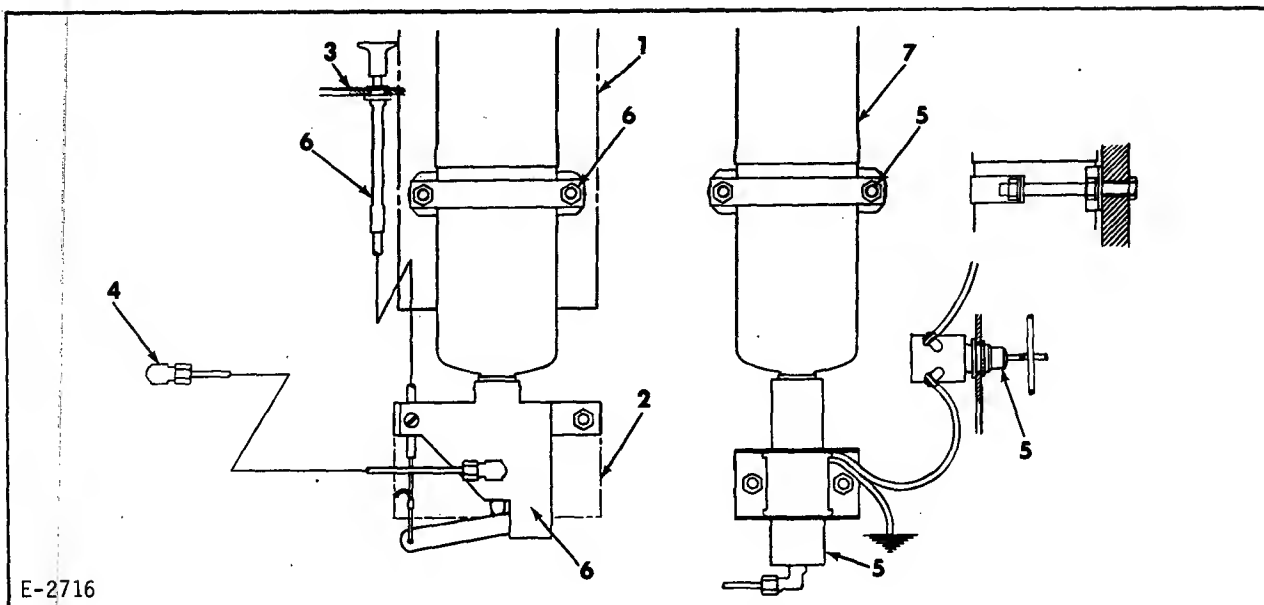


E-2246

CRANKING MOTOR (STARTER)  
(4025692)(4027621)(4472660)(4472717)(4472721)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4354481	1	STARTER 12V (4025692) (4027621)	
	0914876	3	SERVICES D.R. #1114055, 1114072, 1114098	
	0904209	3	CAPSCREW, 5/8 NC X 2 1/2	
			LOCKWASHER	
1	4387529	1	STARTER 24V (4472660) (4472717)	
	0914876	3	DELCO REMY #1113898	
	0904209	3	CAPSCREW, 5/8 NC X 2 1/2	
			LOCKWASHER	
2	4025470	1	ADAPTOR	
3	4027579	1	CABLE, GROUND	
4	0240962	1	SWITCH, PUSH BUTTON	
			(4025692) (4472660) (4472717)	

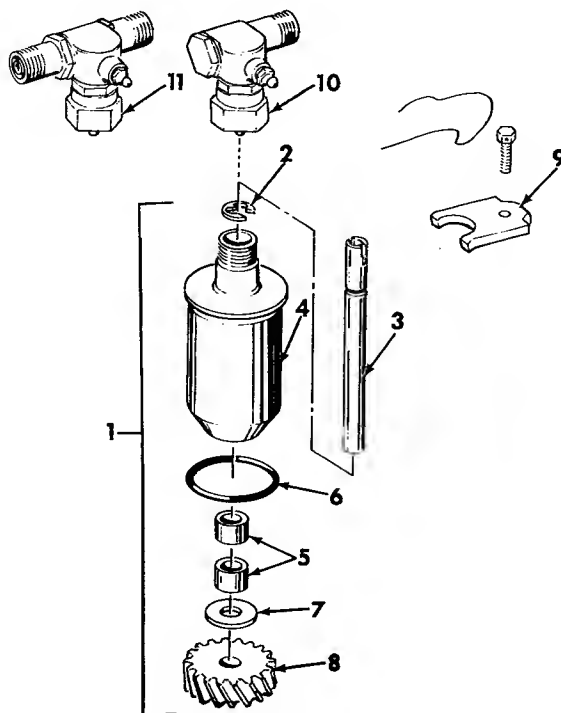
NOTE- 4472721 OMISSION GROUP PROVIDES FOR FACTORY  
REMOVAL FROM DES UNIT PRIOR TO SHIPMENT



ETHER (COLD-START) AID  
(4029596)(4029597)(4029598)(4029599)(4029637)  
(4029638) (4029639) (4029640) (4029652)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4029475	1	BRACKET, FOR CYL. MTG.	
	0919225	2	CAPSCREW, 3/8 NCX1 3/8	
	4664292	1	WASHER, SPACER	
2	4029476	1	BRACKET, LOWER	
	0916272	2	CAPSCREW, 3/8 NC X 1 1/4	
3	4029499	1	DECAL, STARTING INSTRUCTIONS	
4	4029514	1	JET-ELBOW (140 DEGREE SPRAY ANGLE) (AT INTAKE MANIFOLD)	
5	4024725	1	AID AY. ELECTRIC INCL. VALVE AY. WITH DUST CUP, ELBOW WITH NUT & SLEEVE NYLON TUBING, SWITCH AND CLAMP AY.	
	0919926	2	CAPSCREW, 1/4 NC X 11/16	
	0916964	2	LOCKWASHER	
	0916622	2	NUT	
6	4024722	1	AID AY. MANUAL INCL. VALVE AY. WITH DUSTCUP, ELBOW WITH NUT AND SLEEVE, NYLON TUBING, CONTROL CABLE AND CLAMP AY.	
	0919926	2	CAPSCREW, 1/4 NC X 11/16	
	0916964	2	LOCKWASHER	
	0916622	2	NUT	
	0916956	2	WASHER, FOR CABLE	
7	4024792	*	CYLINDER, FUEL (NOT ORIGINAL EQUIPMENT) MUST BE PROCURED THRU DEALER OUTLET	

NOTE- AIR HEATER EQUIPMENT IS FACTORY  
REMOVED WHEN ETHER AID IS FURNISHED



E-2600

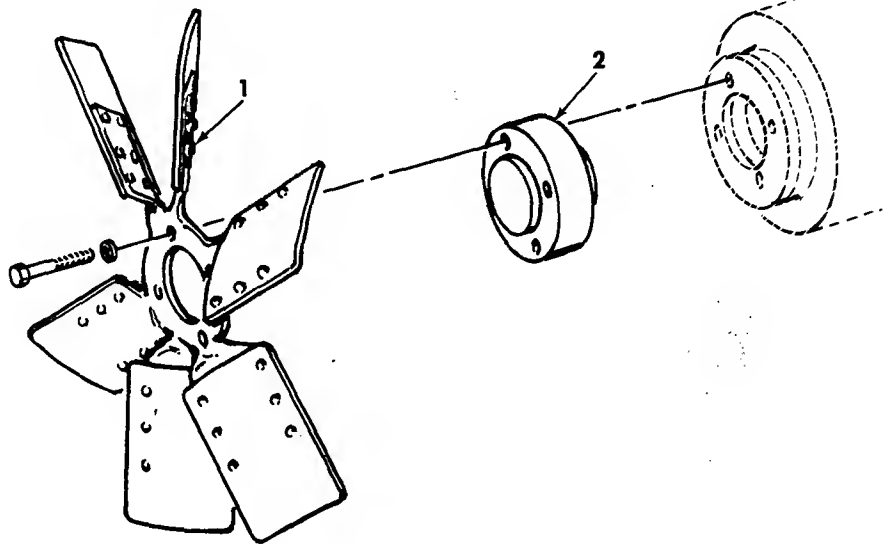
DRIVE AY., OVERSPEED/TACHOMETER  
(4024785) (4027724) (4389858) (4389859)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4028805	1	DRIVE AY, INCL. ITEMS 2 THRU 8 (4027724)	
2	4255932	1	RING, RETAINING	
3	4028807	1	SHAFT	
4	4028810	1	HOUSING AY. (INCL ITEM 5)	
5	4027561	2	BUSHING	
6	0923576	1	O-RING	
7	4028809	1	WASHER, THRUST	
8	4028808	1	GEAR	
9	4020814 4027690	1 1	CLAMP CAPSCREW, DRILLED HD., 3/8 NC X 1	
10	4389858	1	ADAPTOR, 90 DEG ANGLE DRIVE (4389858) INPUT OUTPUT RATIO 4:1	
10	4389859	1	ADAPTOR, 90 DEG ANGLE DRIVE (4389859) INPUT OUTPUT RATIO 1:1	
11	4024785	1	ADAPTOR, 180 DEG DUAL DRIVE (4024785) INPUT OUTPUT RATIO 1:1	

NOTE- ANGLE ADAPTORS ARE ALSO ADAPTABLE TO  
THE MULTI PLUNGER FUEL INJ PUMP



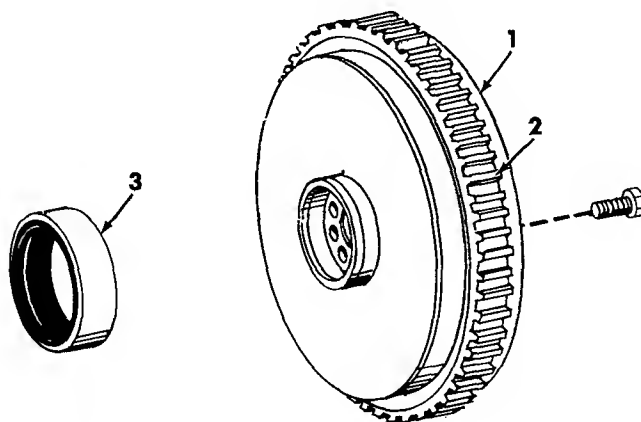
E-2252



FAN AND SPACER  
(4029804) (4035078)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4029611	1	BLADE, FAN 26 IN. SUCKER (4029804)	
	0923639	4	CAPSCREW, 3/8 NF X 4	
	0910287	4	LOCKWASHER	
2	4025641	1	SPACER	
1	4029612	1	BLADE, FAN 26 IN. BLOWER (4035078)	
	0923639	4	CAPSCREW, 3/8 NF X 4	
	0910287	4	LOCKWASHER	
2	4025641	1	SPACER	

E-2223



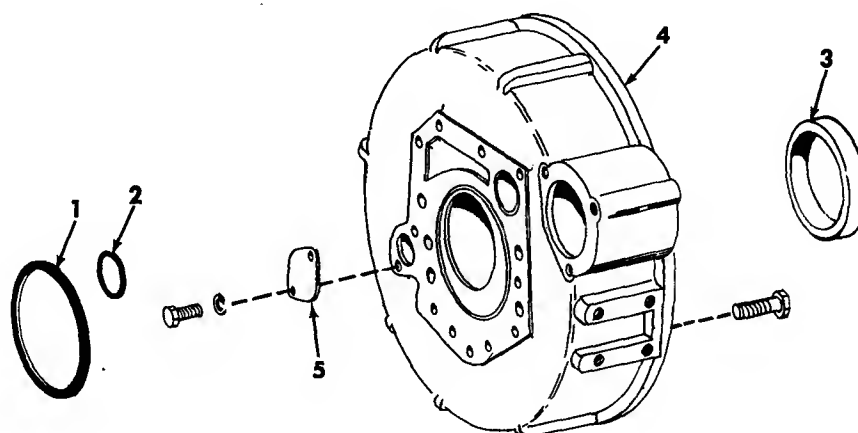
FLYWHEEL  
(4025962)(4026175)(4026314)(4026316)(4026318)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4025735 4359805	1 6	FLYWHEEL AY. INCL. GEAR (4025962) BOLT	
2	4350235	1	GEAR, RING	
3	4029556	1	SLEEVE KIT, INCL WEAR SLEEVE 4028992 WITH INSTRUCTIONS	

NOTE- ITEM 3 USED WITH ALL FLYWHEELS

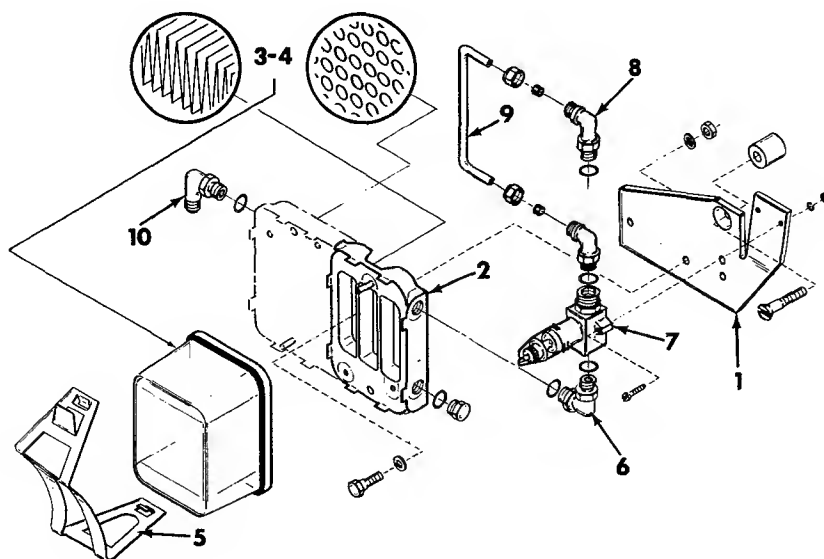
1	4026056 4359805	1 6	FLYWHEEL AY. INCL. GEAR (4026175) BOLT	
2	4350235	1	GEAR, RING	
1	4026315 4359805	1 6	FLYWHEEL AY. INCL. GEAR (4026314) BOLT	
2	4303694	1	GEAR, RING	
1	4026317 4359805	1 6	FLYWHEEL AY. INCL. GEAR (4026316) BOLT	
2	4303694	1	GEAR, RING	
1	4026319 4359807	1 6	FLYWHEEL AY. INCL. GEAR (4026318) BOLT	
2	4303694	1	GEAR, RING	

E-2222



FLYWHEEL HOUSING  
(4025961) (4026715)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4025097	1	O-RING (8 1/2 I.D.).....	4029573
2	4020879	1	O-RING (2 1/4 I.D.).....	4029573
3	4029502	1	SEAL KIT, REAR (INCL. SEAL 4029399 WITH INSTRUCTIONS)	
4	4026344	1	HOUSING (SAE #1) (4026715) 4 AND 8 O'CLOCK STR. PAD.	
	0916311	8	CAPSCREW, 1/2 NC X 1 1/4	
	0904208	8	LOCKWASHER	
	0918851	1	PLUG, PIPE 3/4 DRY SEAL	
	0919840	1	PLUG, PIPE 1/4 NPT	
4	4025773	1	HOUSING (SAE #3) PAD TYPE (4025961) 10 O'CLOCK STR. PAD	
	0916311	8	CAPSCREW, 1/2 NC X 1 1/4	
	0904208	8	LOCKWASHER	
	0918851	1	PLUG, PIPE 3/4 DRYSEAL	
	0919840	1	PLUG, PIPE 1/4 NPT	
5	4348253	1	COVER (4026715)	
	0916284	2	CAPSCREW 1/4 NC X 1/2	
	0904204	2	LOCKWASHER	

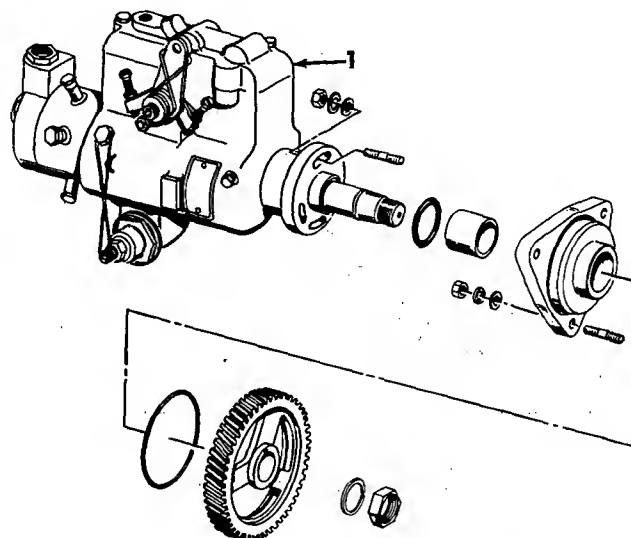


E-2260

FUEL FILTER AND HAND PRIMER  
FOR DISTRIBUTOR TYPE F I PUMP  
(4029698) - DUAL FILTER

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	-----	1	BRACKET, SEE OIL PAN	
	4029724	1	SPACER	
	0929711	1	SCREW, FLT. HD. SOCKET	
2	4029468	1	BASE (DUAL ELEMENT)	
	0916271	2	CAPSCREW 3/8 NC X 1	
	0910287	2	LOCKWASHER	
	0918266	2	WASHER	
	0910324	2	NUT	
	0923167	4	PLUG-VENT AND DRAIN INCLUDES O-RING	
	0921884	4	O-RING	
3	4024232	1	FILTER, FUEL	
4	4024223	1	SEPARATOR, WATER	
5	4024237	2	CLAMP (1 TO A UNIT)	
6	4024215	1	ELBOW (INCL. 2 O-RING)	
	0921884	2	O-RING	
7	4024229	1	PUMP, HAND PRIMER	
	0914081	2	CAPSCREW #10-32 X 1	
	0904203	2	LOCKWASHER	
	0917415	2	NUT	
8	4023720	2	ELBOW, (INCL. O-RING)	
	0921884	2	O-RING	
9	4029588	1	TUBE	
	0917807	2	SLEEVE	
	0917810	2	NUT	
10	0927055	1	ELBOW INLET (INCL. O-RING)	
	0921884	1	O-RING	

E-2239

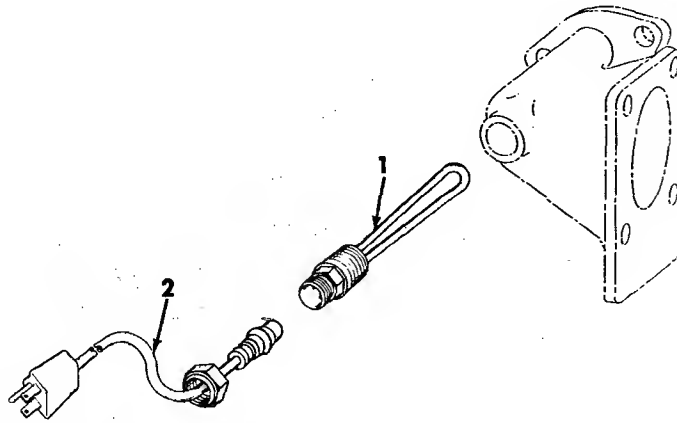


FUEL INJECTION PUMP  
(DISTRIBUTOR TYPE)  
(4035205) (4035207) (4035210)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4035206	1	PUMP, FUEL INJ. (1500/1800 RPM) (4035205) 3-5% REGULATION WITH 24V ETR SOLENOID (MODEL 3500 ENGINE)	
1	4035208	1	PUMP, FUEL INJ. (1500/1800 RPM) (4035207) HYDRAULIC, WITH 12V ETR SOLENOID (MODEL 3500 ENGINE)	
1	4035211	1	PUMP, FUEL INJ. (1500/1800 RPM) (4035210) HYDRAULIC, WITH 24V ETR SOLENOID (MODEL 3500 ENGINE)	

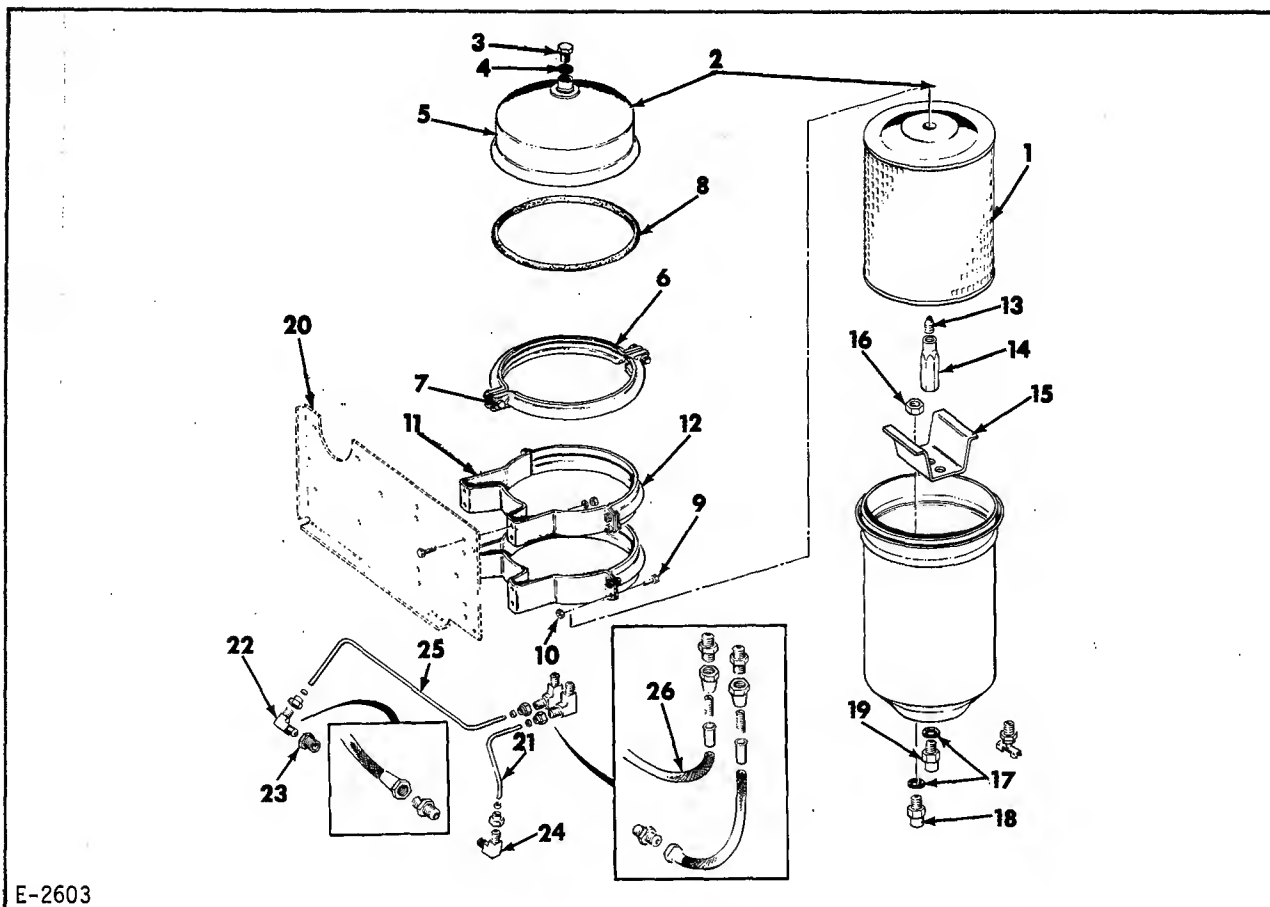
NOTE- REFER TO BASIC PARTS MANUAL FOR  
ITEMS 2 THRU 9

E-2258



IMMERSION HEATER  
(4028935) (4028938)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4028936	1	ELEMENT, 120 VOLT, 1000 WATT (4028935)	
2	4028937	1	CORD, HEATER (12 INCHES)	
1	4028939	1	ELEMENT, 240 VOLT, 1000 WATT (4028938)	
2	4028940	1	CORD, HEATER (12 INCHES)	



E-2603

OIL FILTER, BY-PASS TYPE  
(4029805) (4029921) (4035065) (4035066)  
(4035116) (4035270)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4060980	1	ELEMENT	
2	4029441	1	FILTER AY. INCL ITEMS 1 AND 3 THRU 19	
	0915809	8	CAPSCREW, 5/16 NC X 3/4	
	0904205	8	LOCKWASHER	
	0910323	8	NUT	
	0912415	1	COCK, DRAIN	
3	0084897	1	PLUG, VENT	
4	0084899	1	SEAL, PLUG	
5	4060970	1	COVER	
6	4060968	1	RING AY. (CLAMP)	
7	4060969	2	SCREW	
8	4060971	1	GASKET, COVER	
9	0922234	8	CAPSCREW	
10	0923662	8	NUT	
11	4060966	2	BRACKET	
12	4060967	2	BAND	

CONTINUED

OIL FILTER, 8Y-PASS TYPE (CONTINUED)  
 (4029805) (4029921) (4035065) (4035066)  
 (4035116) (4035270)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
13	4060979	1	PLUG, DRIFICE	
14	4060978	1	POST, OUTLET	
15	4060977	1	SUPPORT, ELEMENT (INCL. NUT)	
16	0911049	1	NUT, LOCK	
17	0063891	2	SEAL, INLET & OUTLET	
18	4060976	1	VALVE AY. OUTLET CHECK	
19	4060975	1	VALVE AY. INLET CHECK	
20	-----	1	PLATE, MOUNTING. REFER TO AIR CLEANER	
21	4029790	1	TUBE AY., INLET (INCL SLEEVES & NUTS)	
	0917807	2	SLEEVE	
	0917810	2	NUT	
22	0920790	1	EL80W, 1/8 P.T. BRASS	
23	0917032	1	ADAPTOR	
24	0920280	3	EL80W, 1/4 P.T. BRASS	
25	4029794	1	TUBE AY. RETURN (INCL. SLEEVES & NUTS)	
	0917807	2	SLEEVE	
	0917810	2	NUT	

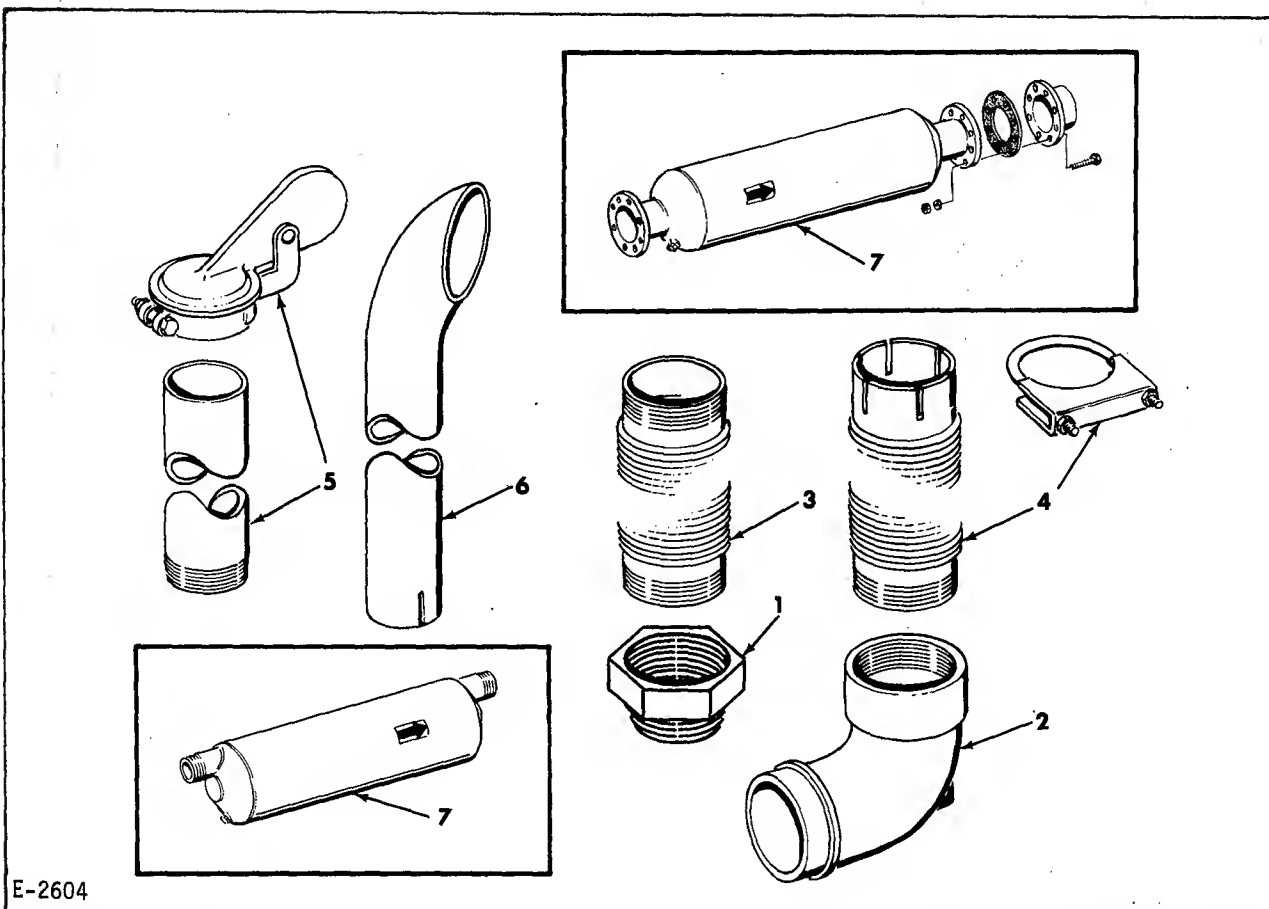
NOTE- 1. GROUP 4029805 AND 4035270 INCLUDES ITEMS 1  
THRU 25.

NOTE- 2. GROUPS 4029921, 4035066 AND 4035116 PROVIDES  
FOR SHIPMENT OF ITEM 2 ONLY UNMTD.

NOTE- 3. GROUP 4035065 DELETES ITEMS 20 THRU 25.  
FILTER WITH ITEM 26 ARE  
SHIPPED UNMOUNTED

26	0928122	1	HOSE #6 (25 FT) TO SERVICE 4024787 (240 IN) FACTORY SHIPMENT
	0919072	1	CONNECTOR, COOLER HSG.
	0919062	1	CONNECTOR, FILTER AND CYL. BLOCK
	0928090	4	NUT *
	0928096	4	NIPPLE *
	0928084	4	SOCKET *
			(ONE EACH FOR EACH HOSE END)

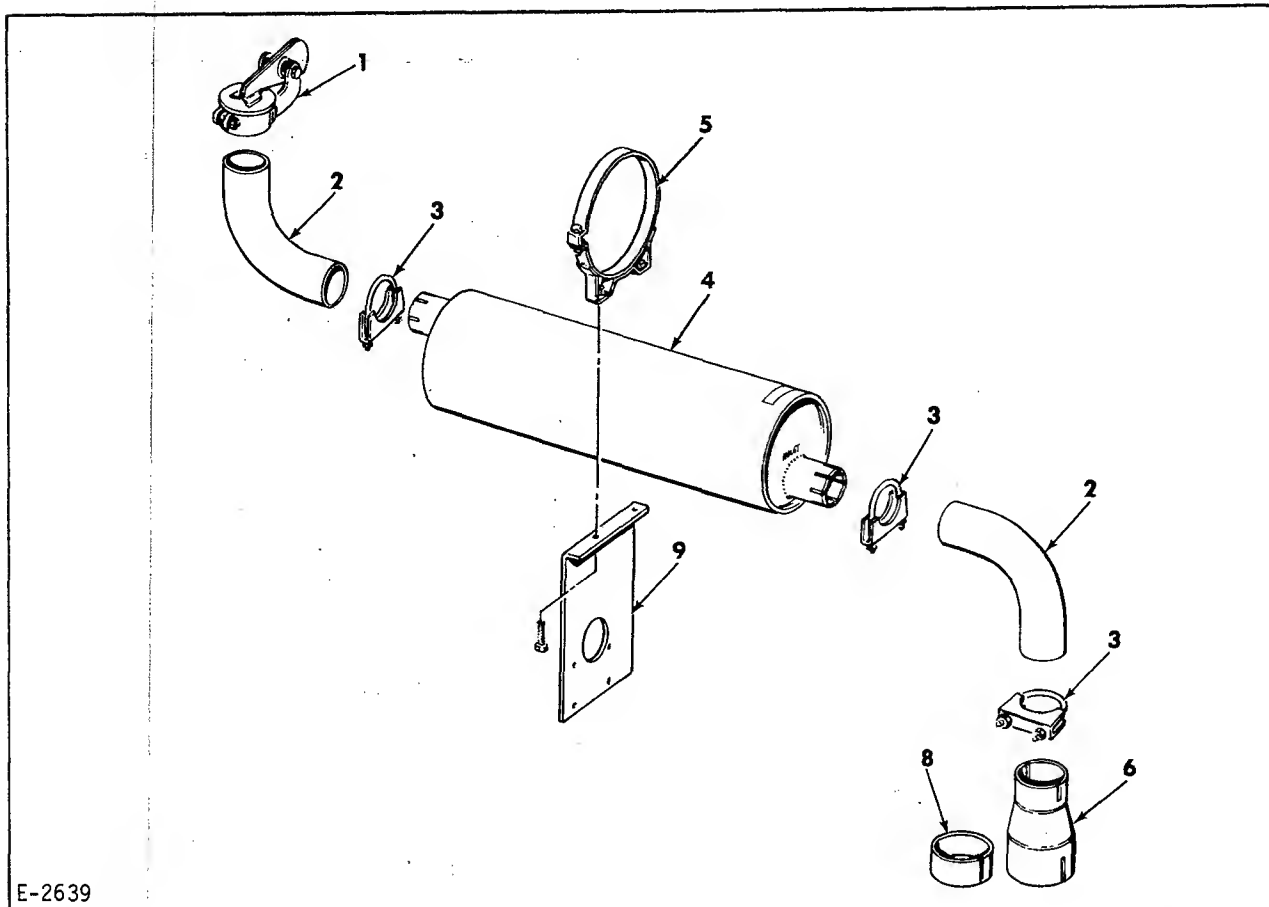




E-2604

EXHAUST PIPES & FLEX HOSES  
(0920204) (4025709) (4026118) (4026119) (4029802)  
(4403571) (4472489) (4472524) (4472534)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	0920204	1	REDUCER, 4 TO 3 NPT (0920204)	
2	4025924	1	ELBOW, DIFFUSER (3 IN NPT) (4026118)	
3	4431080	1	HOSE, FLEX 18 IN-3 IN NPT (4403571)	
4	4026113	1	HOSE, FLEX 20 IN (4026119)	
	3019330	1	4 IN SLEEVE & 4 IN NPT YOKE & CLAMP AY	
5	4253704	1	PIPE, 36 IN-2 1/2 IN NPT (4025709)	
	4254684	1	CAP, RAIN	
6	4029630	1	STACK, EXHAUST (4 IN SLEEVE) (4029802)	
	3019330	1	YOKE & CLAMP AY	
7	4472488	1	SILENCER, EXH-BMCE #4 IND. (4472524)	
7	4027258	1	SILENCER, EXH-BEO #4 HOSP. (4472534)	
7	4017569	1	SILENCER, EXH-BMA #4 RES. (4472489)	
	4254076	2	FLANGE, 4 IN I.P.S.	
	4665241	2	GASKET	
	0920356	16	CAPSCREW, 5/8 NC X 2 3/4	
	0917476	16	LOCKWASHER	
	0918241	16	NUT	

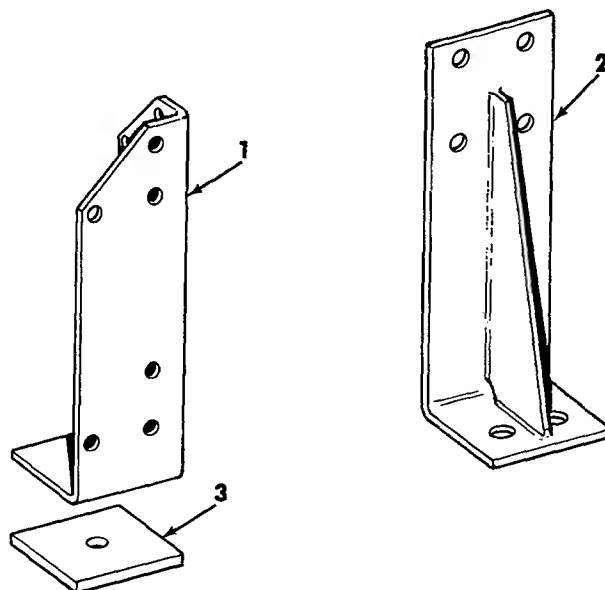


E-2639

MUFFLER, EXHAUST  
(4035092) (4035093) (4472785)

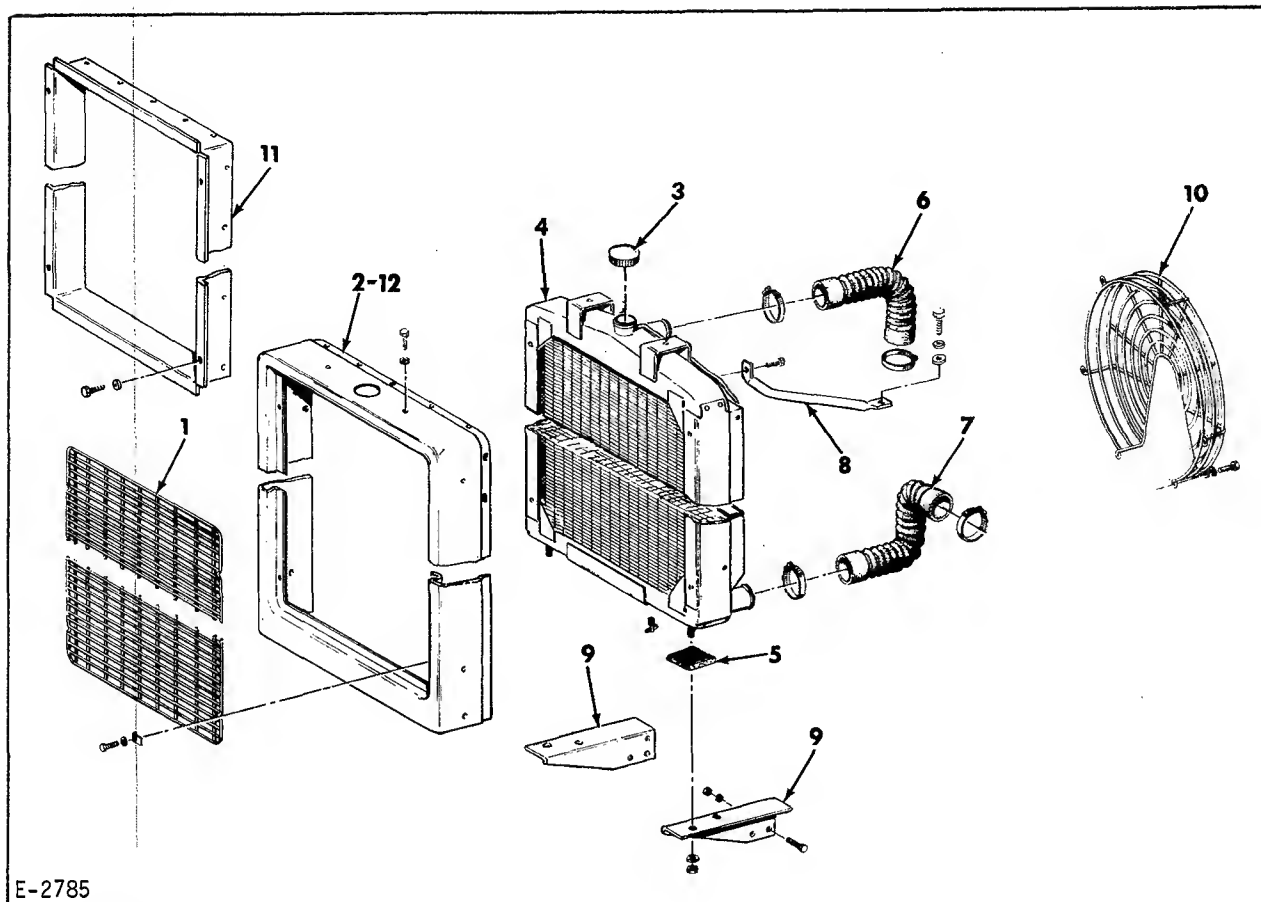
ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	0085088	1	CAP, RAIN	
2	4029998	2	ELBOW, 3 IN O.D. TUBE 90 DEG	
3	3040883	3	CLAMP AY	
4	3061668	1	MUFFLER	
5	3061477	1	CLAMP	
	0930472	2	CAPSCREW, 3/8 NC X 3/4	
6	4029997	1	REDUCER, 4 IN TO 3 IN	
7	4440677	1	CLAMP AY.	
8	4035004	1	SLEEVE, 4 IN O.D.	
9	4029999	1	BRACKET, SUPPORT (4035093)	
9	4472784	1	BRACKET, SUPPORT (4472785)	

E-2606



SUPPORTS, ENGINE  
(4029801) (4472756)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4029610	2	SUPPORT, FRONT	
	0916311	6	CAPSCREW, 1/2 NC X 1 1/4	
	0904208	6	LOCKWASHER	
	0910325	6	NUT	
2	4026949	2	SUPPORT, REAR	
	0916311	8	CAPSCREW, 1/2 NC X 1 1/4	
	0904208	8	LOCKWASHER	
	BASIC DES 90			
1	4029610	2	SUPPORT, FRONT (4472756)	
	0916311	6	CAPSCREW, 1/2 NC X 1 1/4	
	0904208	6	LOCKWASHER	
	0910325	6	NUT	
3	4472620	2	SHIM, SUPPORT 3/4 THICK SHIPPED UNMTD, IS FACTORY REMOVED WHEN SUB-BASE IS FURNISHED	



RADIATOR, SHELL AND GUARDS  
 (4029800)(4029803)(4029806)(4029818)(4035077)  
 (4472758) (4472759) (4472782 OMISSION)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4029628	1	GUARD, CORE (4029806)	
	4389624	6	CLIP	
	0929945	6	CAPSCREW, 1/4 NC X 7/8	
	0911114	6	WASHER	
2	4029613	1	SHELL, RADIATOR (4029818)	
	0929944	8	CAPSCREW	
	0911114	8	WASHER	

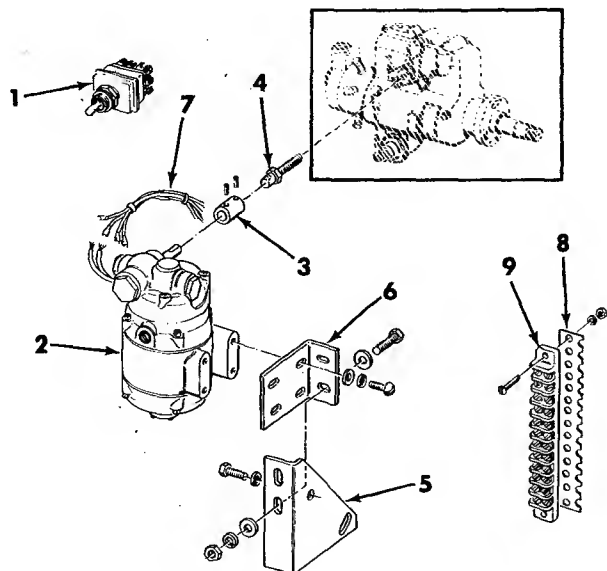
NOTE- RADIATOR GROUP INCLUDES ITEMS 3 THRU 9

3	0254891	1	CAP, PRESSURE
4	4029601	1	RADIATOR (4035077)
4	4029602	1	RADIATOR (4029800)
	0912415	1	COCK, DRAIN
5	4407995	2	DAMPNER, WASHER
	0917379	2	WASHER
	0918309	2	NUT, LOCK
6	4256003	1	HOSE, UPPER
	0925758	2	CLAMP

RADIATOR, SHELL AND GUARDS (CONTINUED)  
 (4029800)(4029803)(4029806)(4029818)(4035077)  
 (4472758) (4472759) (4472782 OMISSION)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
7	4256002	1	HOSE, LOWER	
	0925758	2	CLAMP	
8	4029603	1	BRACE	
	0915809	1	CAPSCREW 5/16 NC X 3/4	
	0904205	1	LOCKWASHER	
	0910335	1	WASHER	
	0916272	1	CAPSCREW, 3/8 NC X 1 1/4	
9	4029605	1	SUPPORT, RIGHT HAND	
9	4029606	1	SUPPORT, LEFT HAND	
	0916311	6	CAPSCREW, 1/2 NC X 1 1/4	
	0904208	6	LOCKWASHER	
	0910325	6	NUT	
10	4029627	1	GUARD, FAN (4029803)	
	0915809	5	CAPSCREW, 5/16 NC X 3/4	
	0901165	5	WASHER	
	0904205	5	LOCKWASHER	
11	4472760	1	ADAPTOR, AIR DUCT. (4472759)	
	0929944	6	CAPSCREW, 1/4 NC X 1/2	
	0918264	6	WASHER	
12	4472754	1	SHELL RADIATOR (4472758)	
	0929944	8	CAPSCREW, 1/4 NC X 1/2	
	0918264	8	WASHER	
	0916069	2	CAPSCREW, 1/4 NC X 3/4	
	0918264	4	WASHER	
	0916964	2	LOCKWASHER	
	0916622	2	NUT	

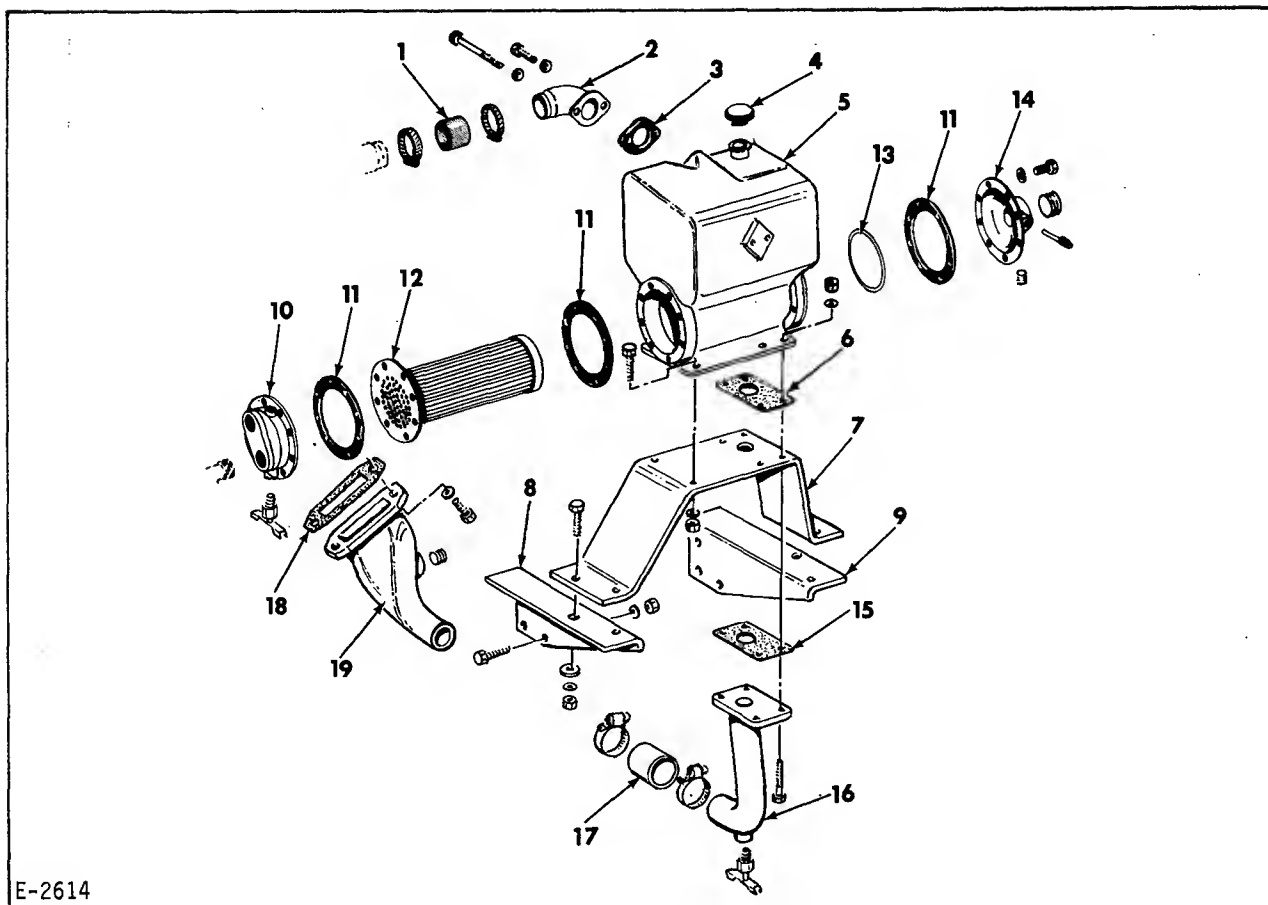
NOTE- OMISSION GROUP 4472782 PROVIDES FOR FACTORY  
 REMOVAL OF ITEMS 3 THRU 10 AND THE BASIC FAN  
 BLADE FROM THE DES90 UNIT, PRIOR TO SHIPMENT.



E-2592

REMOTE SPEED CONTROL MOTOR  
(4472769) (4472793)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4401745	1	SWITCH AY. (REMOTE CONTROL)* 4 P.D.T. MOMENTARY "ON" INCLUDES RESISTOR (47 OHM, 5 1/4 WATT)	
DOES NOT INCLUDE WIRE HARNESS				
2	4401741	1	MOTOR, SPEED CONTROL	
	0917452	4	SCREW, #10 NF X 1/2	
	0917365	4	LOCKWASHER	
	0923212	4	WASHER	
3	4472691	1	COUPLING	
	0917569	2	SETSCREW, #10 NC X 1/4	
4	4472673	1	SCREW, THROTTLE CONTROL USED IN PLACE OF SCREW EQUIPPED IN BASIC F.I. PUMP	
5	4472743	1	BRACKET, SPEED CONTROL	
	0916273	2	CAPSCREW, 3/8 NC X 1 3/4	
	0918266	1	WASHER	
	4034354	1	SPACER	
6	4472744	1	BRACKET, MTR MTG	
	0919319	2	CAPSCREW, 5/16 NC X 7/8	
	0918265	2	WASHER	
	0917356	2	LOCKWASHER	
	0917372	2	NUT	
NOTE- 1. ITEMS 7, 8 & 9 EQUIPMENT IS INCLUDED IN GROUP 4472769 ONLY.				
7	4472663	1	WIRE AY (MTR TO T.B.)	
8	4430989	1	STRIP, MARKER (13 TO 24)	
9	4430987	1	BLOCK, TERMINAL	
	0917439	2	SCREW, #6 NF X 1 1/4	
	0917459	2	LOCKWASHER	
	0917479	2	NUT	



HEAT EXCHANGER & WATER INLET PIPE  
(4035215)

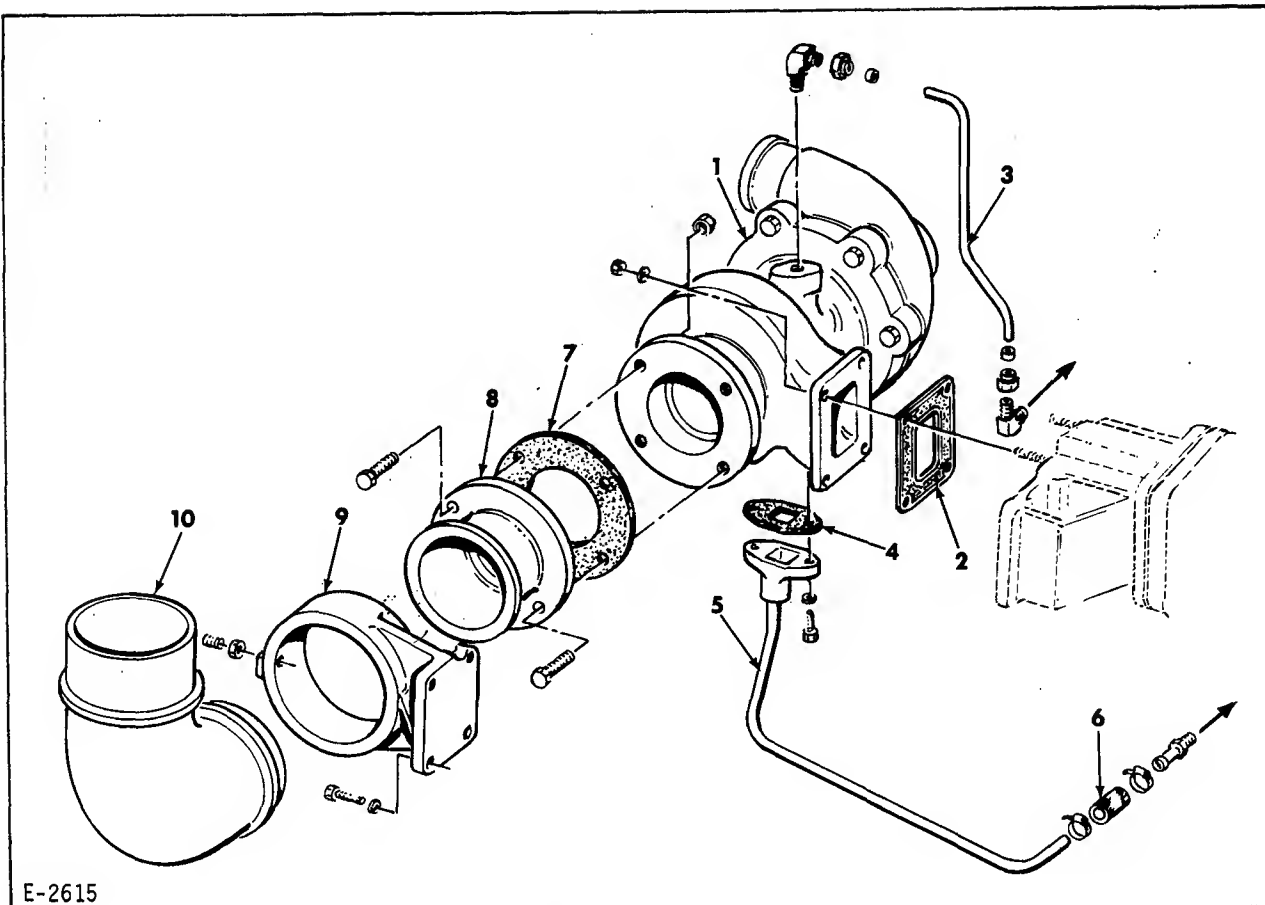
ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
APPLICATION REQUIRES WATER COOLED EXHAUST MANIFOLD AND ENGINE SUPPORTS				
1	4014655	1	HOSE, INLET	
	0922199	2	CLAMP	
2	4028990	1	ELBOW, INLET	
	0916868	1	CAPSCREW, 7/16 NC X 3 3/4	
	0916197	1	CAPSCREW, 7/16 NC X 1 1/4	
	0904207	2	LOCKWASHER	
3	4368993	1	GASKET	
4	4254804	1	CAP, 7 P.S.I.	
5	4359992	1	TANK, EXPANSION	
	0916272	2	CAPSCREW, 3/8 NC X 1 1/4	
	0910287	2	LOCKWASHER	
	0910324	2	NUT	
6	4029034	2	GASKET	
7	4028989	1	BRACKET, MOUNTING	
	0919230	4	CAPSCREW, 1/2 NC X 1 3/8	
	0904208	4	LOCKWASHER	
	0914907	2	WASHER	
	0910325	4	NUT	
8	4026968	1	SUPPORT, R.H.	

CONTINUED

HEAT EXCHANGER & WATER INLET PIPE (CONTINUED)  
(4035215)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
	0916311	3	CAPSCREW, 1/2 NC X 1 1/4	
	0904208	3	LOCKWASHER	
	0910325	3	NUT	
9	4026962	1	SUPPORT, L.H.	
	0916311	3	CAPSCREW, 1/2 NC X 1 1/4	
	0904208	3	LOCKWASHER	
	0910325	3	NUT	
10	4338869	1	BONNET, INLET & OUTLET	
	0912415	1	COCK, DRAIN 1/4 IN.	
	0914847	8	CAPSCREW, 3/8 NC X 1 1/2	
	0910287	8	LOCKWASHER	
11	4337235	3	GASKET	
12	4337233	1	BUNDLE, TUBE	
13	0923856	1	O-RING	
14	4338300	1	BONNET, END	
	4045150	1	PENCIL, ZINC	
	0901667	1	PLUG, PIPE 1 1/4	
	0919134	1	PLUG, PIPE 1/8	
	0916272	8	CAPSCREW, 3/8 NC X 1 1/4	
	0910287	8	LOCKWASHER	
15	4029034	1	GASKET	
16	4029946	1	ELBOW, OUTLET	
	0916273	4	CAPSCREW, 3/8 NC X 1 3/4	
	0910287	4	LOCKWASHER	
	0910324	4	NUT	
	0912415	1	COCK, DRAIN 1/4 IN.	
17	4015373	1	HOSE, OUTLET	
	0925758	2	CLAMP	
18	4029327	1	GASKET	
19	4029331	1	PIPE, WATER INLET*	
			* USED IN LIEU OF 4029772	
	0916255	2	CAPSCREW, 7/16 NC X 1 3/4	
	0904207	2	LOCKWASHER	
	0920416	1	PLUG, PIPE 1/2 HX. HD.	



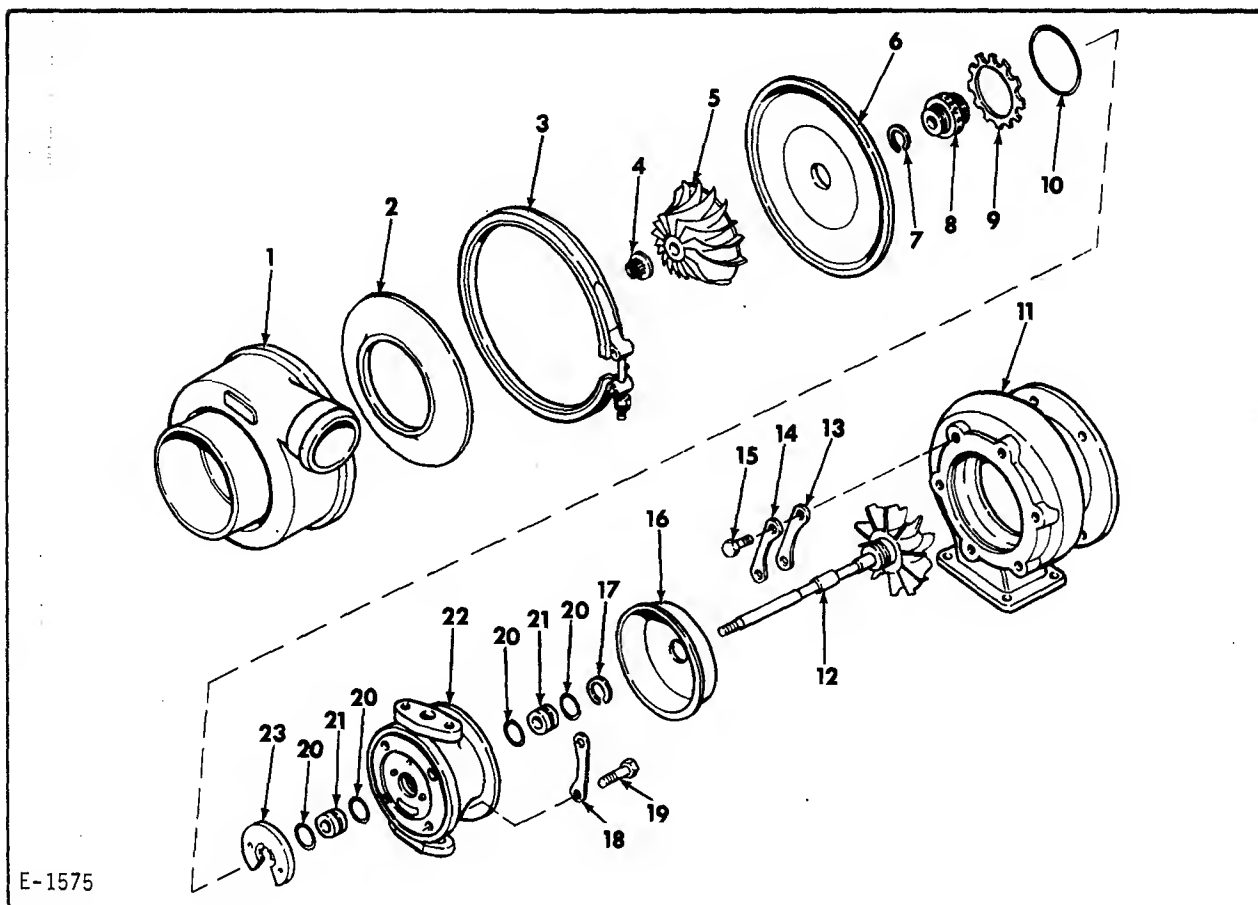


TURBOCHARGER AND EXHAUST OUTLET  
(WATER COOLED EXHAUST MANIFOLD)  
(4035213) (4035295)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4029313	1	TURBOCHARGER, KIT (4035213) SERVICES 4029308)	
1	4029314	1	TURBOCHARGER KIT (4035295) SERVICES #4029310	
	0913544	4	WASHER	
	4255977	4	NUT	
2	4025781	1	GASKET	
3	4029948	1	TUBE AY. OIL FEED (INCL SL & NUTS)	
	4255983	1	SLEEVE, TURBOCHARGER END	
	0917807	1	SLEEVE, GALLERY END	
	0917810	2	NUT	
	0920280	1	ELBOW, 90 DEG. (AT TURBOCHARGER)	
	0920790	1	ELBOW, 90 DEG (AT OIL GALLERY)	
4	4339532	1	GASKET	
5	4029950	1	TUBE, FLANGED, OIL DRAIN	
	0919224	2	CAPSCREW, 3/8 NC X 1 1/8	
	0910287	2	LOCKWASHER	
6	4027719	1	HOSE, DRAIN	
	0922660	2	CLAMP	
	0926912	1	FITTING, HOSE CONN.	
7	4338943	1	GASKET, DIFFUSER.....4029572	

TURBOCHARGER AND EXHAUST OUTLET (CONTINUED)  
(WATER COOLED EXHAUST MANIFOLD)  
(4035213) (4035295)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
8	4025922	1	DIFFUSER, EXHAUST	
	0919224	1	CAPSCREW, DIFFUSER, 3/8 NC X 1 1/8	
	0916272	3	CAPSCREW, DIFFUSER, 3/8 NC X 1-1/4	
	0239400	4	NUT, LOCK	
9	4028953	1	RING, DIFFUSER	
	0918683	4	CAPSCREW, 1/2 NC X 1-1/8	
	0904208	4	LOCKWASHER	
	0920469	1	SETSCREW, 3/8 NC X 3/4	
	0912772	1	NUT, JAM	
10	4025925	1	ELBOW, EXH. OUTLET	



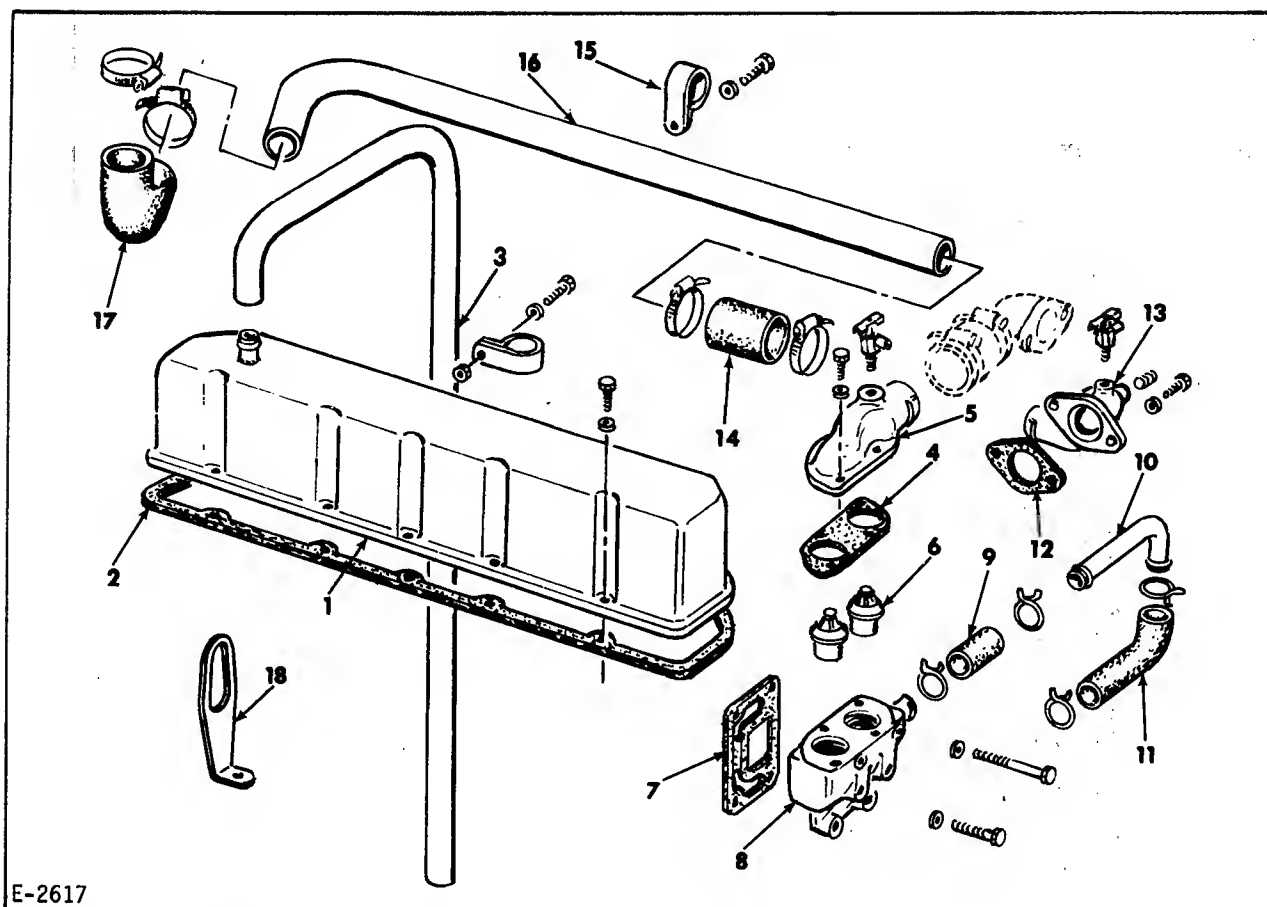
**TURBOCHARGER ASSEMBLY**  
 (4029308) (4029310) (4035213) (4035295)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
-	4029313	1	TURBOCHARGER KIT (4029308 W/INSTR.)	
-	4029314	1	TURBOCHARGER KIT (4029310 W/INSTR.)	
1	4060009	1	HOUSING, COMPRESSOR	
2	4060683	1	DIFFUSER (4029310)	
2	4060684	1	DIFFUSER (4029308)	
3	4059995	1	COUPLING, V-BAND AY.	
4	4059993	1	NUT, WHEEL LOCK	
5	4060006	1	WHEEL, COMPRESSOR	
5	4060005	1	WHEEL, COMPRESSOR	
6	4060941	1	BACKPLATE (INCL ITEM 9)	
7	4059984	1	RING, SEALING	
8	4059988	1	COLLAR, THRUST	
9	4059987	1	SPRING, THRUST	
10	4056300	1	RING, SEALING	
11	4060685	1	HOUSING, TURBINE (4029308)	

TURBOCHARGER ASSEMBLY (CONTINUED)  
(4029308) (4029310) (4035213) (4035295)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
11	4060701	1	HOUSING, TURBINE (4029310)	
12	4060010	1	SHAFT AND WHEEL AY.	
13	4059990	1	CLAMP, TURBINE HSG.	
14	4059991	3	LOCKPLATE, TURBINE HSG.	
15	4059998	6	BOLT, 5/16 NC X 1/2	
16	4059997	1	SHROUD	
17	4060936	1	RING, SEALING	
18	4059992	2	LOCKPLATE, CTR. HSG.	
19	0928202	4	BOLT	
20	4060726	4	RING, RETAINER	
21	4060935	2	BEARING	
22	4060940	1	HOUSING KIT, CENTER (INCL PINS) AND ITEM 17	
	4053422	2	PIN, DOWEL	
23	4060939	1	BEARING, THRUST	

NOTE- REFER TO TM-5057 SERVICE MANUAL, PRIOR TO REMOVAL  
OF UNIT.



E-2617

**BYPASS THERMOSTAT AND WATER OUTLETS  
(WATER COOLED EXHAUST MANIFOLD)  
(4035213) (4035292) (4035295)**

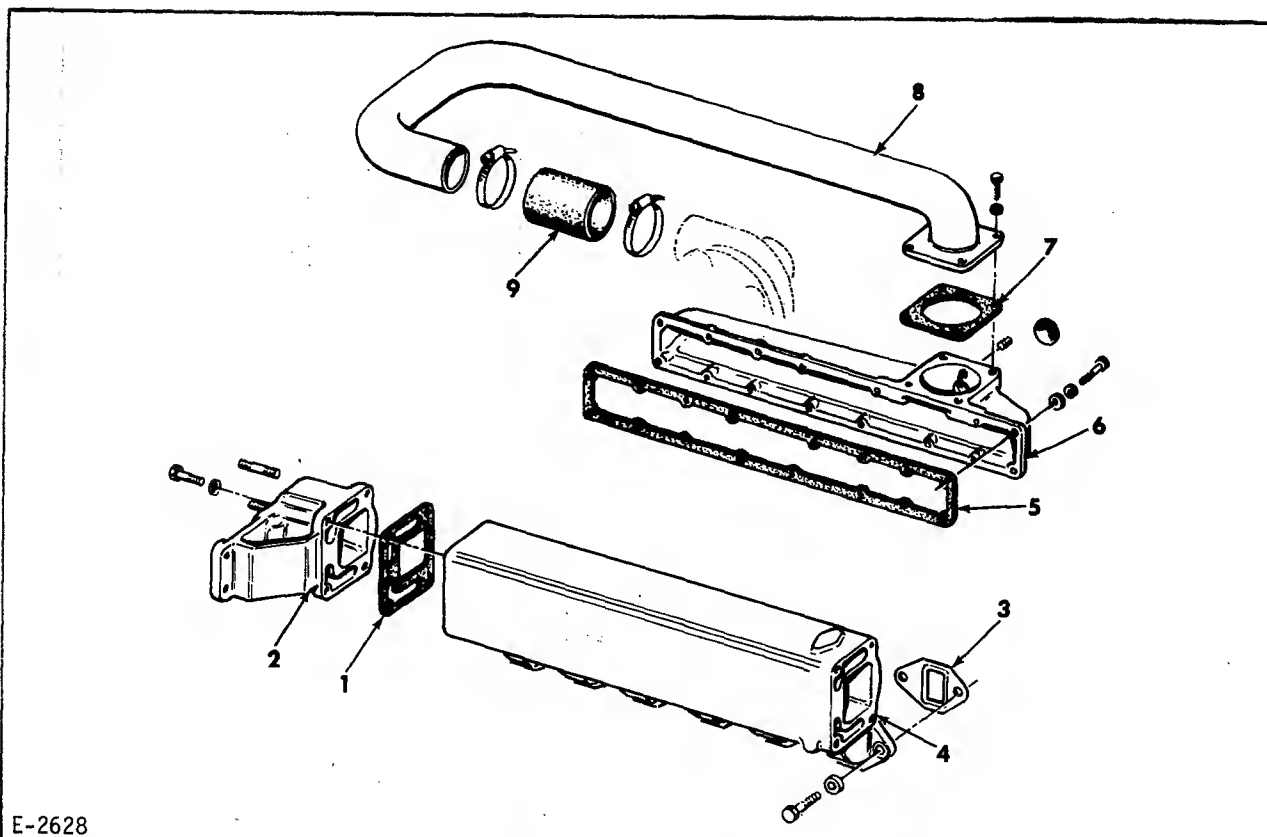
ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4029766	1	COVER, CYL HEAD (4035213) (4035292)	
	4153776	10	CAPSCREW	
	4025491	10	WASHER	
2	4025472	1	GASKET, COVER (4035213) (4035292)	
3	4029767	1	HOSE, BREATHER (4035213) (4035292)	
	4255739	1	CLAMP	
	0915408	1	CAPSCREW, 3/8 NC X 3/4	
	0910287	1	LOCKWASHER	
	0910324	1	NUT	
4	4035089	1	GASKET, THERMOSTAT OUTLET	
5	4029945	1	ELBOW, THERMOSTAT OUTLET	
	0919224	4	CAPSCREW, 3/8 NC X 1 1/8	
	0910287	4	LOCKWASHER	
	0915514	1	COCK, EL (AIR BLEED)	
6	4025103	2	THERMOSTAT	
7	4028966	1	GASKET, HOUSING	
8	4029944	1	HOUSING, THERMOSTAT	
	0914883	2	CAPSCREW, 7/16 NC X 4 1/2	
	0916257	2	CAPSCREW, 7/16 NC X 2 1/2	
	0904207	4	LOCKWASHER	

CONTINUED

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BYPASS THERMOSTAT AND WATER OUTLETS (CONTINUED)  
(WATER COOLED EXHAUST MANIFOLD)  
(4035213) (4035292) (4035295)

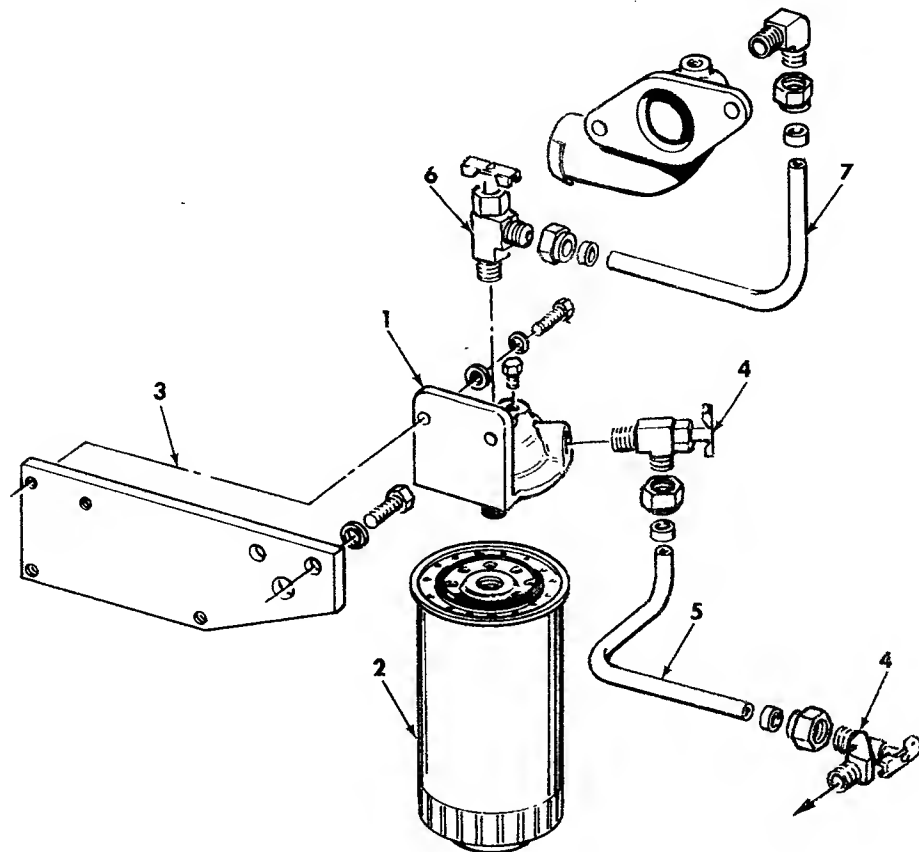
ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
9	4351345	1	HOSE, BYPASS	
	4255093	2	CLAMP	
10	4029947	1	TUBE, BY-PASS	
11	4352409	1	HOSE, BYPASS EL	
	4255093	2	CLAMP	
12	4025101	1	GASKET	
13	4028971	1	ELBOW, CYL. HD. WTR. OUTLET	
	0920416	1	PLUG, PIPE 1/2 NPT	
	0915514	1	COCK, EL (AIR BLEED)	
	0916197	2	CAPSCREW, 7/16 NC X 1 1/4	
	0904207	2	LOCKWASHER	
14	4315862	1	HOSE, WATER OUTLET	
	0921913	2	CLAMP	
15	4028977	1	CLAMP, TUBE SECURING	
	0915408	1	CAPSCREW, 3/8 NC X 3/4	
	0910287	1	LOCKWASHER	
16	4028970	1	TUBE, CYL. HD. WTR. OUTLET	
17	4028969	1	HOSE, EL	
	0921913	2	CLAMP	
18	4029154	2	EYE, LIFTING (4035295) USED IN LIEU OF 4025177 FOR AIR CORSSOVER PIPE CLEARANCE	



E-2628

INTAKE & WATER COOLED EXHAUST MANIFOLD  
(4035213) (4035295)

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4028966	1	GASKET	
2	4028967	1	ADAPTOR, TURBOCHARGER MTG.	
	4513701	4	STUDS	
	0916191	4	CAPSCREW, 7/16 NC X 1 1/2	
	0904207	4	LOCKWASHER	
3	4027014	6	GASKET, EXH. MANIFOLD	
4	4028965	1	MANIFOLD, EXH. WTR. COOLED	
	4371107	12	WASHER	
	4027042	12	CAPSCREW	
5	4026579	1	GASKET, INTAKE MANIFOLD	
6	4027504	1	MANIFOLD, INTAKE	
	0919134	1	PLUG, PIPE 1/8 NPT	
	4020880	1	PLUG, EXP. (AIR HTR OPENING)	
	0919224	14	CAPSCREW	
	0913544	14	WASHER	
	0910287	14	LOCKWASHER	
7	4025376	1	GASKET	
7	4028981	1	TUBE, AIR CROSSOVER (4035295)	
8	4028984	1	TUBE, AIR CROSSOVER (4035213)	
	0916269	4	CAPSCREW, 3/8 NC X 7/8	
	0910287	4	LOCKWASHER	
9	4027975	1	HOSE	
	0927140	2	CLAMP	



E-2629

WATER FILTER, CORROSION INHIBITOR  
(4035213) (4035295)  
AS USED WITH WATER COOLED EXHAUST

ITEM	PART NUMBER	QTY	DESCRIPTION	PACKAGE NO
1	4393427	1	BASE AY, WATER FILTER	
	0916254	2	CAPSCREW, 7/16 NC X 1	
	0912298	2	WASHER	
	0904207	2	LOCKWASHER	
	0919134	1	PLUG, PIPE 1/8	
2	4029089	1	FILTER, WATER (ORIGINAL EQUIPMENT) ALL PURPOSE EXCEPT "DOWTHERM" 209	
2	4029120	*	FILTER, (CHROMATIC TYPE) FOR USE WITH "DOWTHERM" 209 ANTI-FREEZE	
3	4029132	1	PLATE, MOUNTING	
	0916311	2	CAPSCREW, 1/2 NC X 1 1/4	
	0904208	2	LOCKWASHER	
4	0928947	2	VALVE AY., SHUT-OFF	
5	4029952	1	TUBE, INLET	
	0917807	2	SLEEVE	
	0917810	2	NUT	
6	4029694	1	VALVE AY. SHUT-OFF	
7	4029953	1	TUBE, OUTLET	
	0917807	2	SLEEVE	
	0917810	2	NUT	
	0928915	1	ELBOW, IMP. 3/8 TUBE, 1/2 NPT	



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